



(19)

Generated Document.

(11) Publication number: **04042787 A**

# **PATENT ABSTRACTS OF JAPAN**

(21) Application number: **02149207**

(22) Application date: **07.06.90**

(51) Int. Cl.: **H02N 2/00**

(30) Priority:

(43) Date of application  
publication: **13.02.92**

(84) Designated contracting  
states:

(71) Applicant: **CANON INC**

(72) Inventor: **SHIRASAKI TAKAYUKI**

(74) Representative:

## **(54) OSCILLATORY WAVE MOTOR**

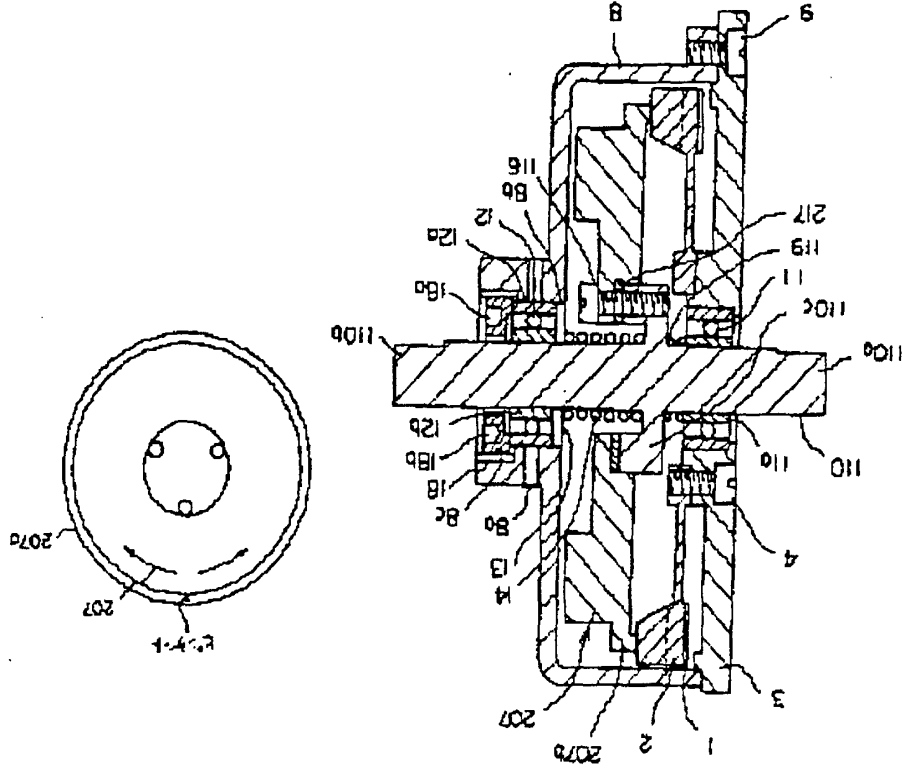
(57) Abstract:

**PURPOSE:** To fix a moving unit solidly to an output shaft without providing an elastic sheet between them by a method wherein the moving unit is composed of a molded unit made of composite resin an fitted and fixed to the output shaft with an elastic element therebetween without employing an intermediate metal member made of metal such as aluminum alloy.

<http://www.delphion.com/cgi-bin/viewpat.cmd/JPO4042787A2>

**CONSTITUTION:** Thermosetting resin which has a glass transition point not lower than 100°C and contains carbon fibers (or graphite fibers, carbon whiskers or potassium titanate fibers) is injection-molded so as to have the reinforcing fiber material oriented along the circumferential direction of a molded annular moving unit 207. Thus the moving unit 207 made of composite resin containing the reinforcing fibers which are oriented along the circumferential direction is formed by an injection molding method. After the surface of the moving unit 207 is polished, the moving unit 207 is assembled into an oscillatory wave motor by fixing it to the output shaft 110 of the motor with a rubber-like elastic element 217 therebetween.

**COPYRIGHT:** (C)1992, JPO&Japio



## JP4042787A2: OSCILLATORY WAVE MOTOR

Country: JP Japan

Kind: A

Inventor: SHIRASAKI TAKAYUKI;

Assignee: CANON INC

[News, Profiles, Stocks and More about this company](#)

Published / 1992-02-13 / 1990-06-07

Filed:

Application JP1990000149207

Number:

IPC Code: H02N 2/00;

Priority Number: 1990-06-07 JP1990000149207

Abstract:

PURPOSE: To fix a moving unit solidly to an output shaft without providing an elastic sheet between them by a method wherein the moving unit is composed of a molded unit made of composite resin an fitted and fixed to the output shaft with an elastic element therebetween without employing an intermediate metal member made of metal such as aluminum alloy.

CONSTITUTION: Thermosetting resin which has a glass transition point not lower than 100°C and contains carbon fibers (or graphite fibers, carbon whiskers or potassium titanate fibers) is injection-molded so as to have the reinforcing fiber material oriented along the circumferential direction of a molded annular moving unit 207. Thus the moving unit 207 made of composite resin containing the reinforcing fibers which are oriented along the circumferential direction is formed by an injection molding method. After the surface of the moving unit 207 is polished, the moving unit 207 is assembled into an oscillatory wave motor by fixing it to the output shaft 110 of the motor with a rubber-like elastic element 217 therebetween.


COPYRIGHT: (C)1992,JPO&Japio

INPADOCNone

Buy Now: [Family Legal Status Report](#)

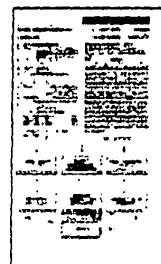
Legal Status:

Family:

Buy PDF	Publication	Pub. Date	Filed	Title
	US5352950	1994-10-04	1992-12-28	Vibration wave driven motor
	JP4042787A2	1992-02-13	1990-06-07	OSCILLATORY WAVE MOTOR
	JP3285574A2	1991-12-16	1990-03-30	VIBRATION WAVE MOTOR
	JP3285573A2	1991-12-16	1990-03-30	VIBRATION WAVE MOTOR
4 family members shown above				

Other Abstract None

Info:



View  
Image

1 page